

Daily Analysis Runlog For Sequence/QC Batch ID # LB90569

Review By		Review On				
SubDirectory		LB90569		Test : Anions		

STD. NAME	STD REF.#
ICAL Standard	WP57962,WP57963,WP57964,WP57965,WP57966,WP57967,WP57968
ICV Standard	WP57969
CCV Standard	WP58351
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58352
Chk Standard	WP57970,WP58508

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	09/18/17 11:14		OK
2	STD2	STD2	CAL2	09/18/17 11:43		OK
3	STD3	STD3	CAL3	09/18/17 12:12		OK
4	STD4	STD4	CAL4	09/18/17 12:41		OK
5	STD5	STD5	CAL5	09/18/17 13:10		OK
6	STD6	STD6	CAL6	09/18/17 13:39		OK
7	STD7	STD7	CAL7	09/18/17 14:08		OK
8	ICV1	ICV1	ICV	09/18/17 15:34		OK
9	ICB1	ICB1	ICB	09/18/17 16:03		OK
10	CCV1	CCV1	CCV	10/04/17 10:14		OK
11	CCB1	CCB1	CCB	10/04/17 11:09		OK
12	LB90569BLW	LB90569BLW	MB	10/04/17 11:38		OK
13	LB90569BSW	LB90569BSW	LCS	10/04/17 12:08		OK
14	I5667-03	FINAL-EFFLUENT-15	SAM	10/04/17 15:08		OK
15	I5667-03DUP	FINAL-EFFLUENT-15	DUP	10/04/17 15:38		OK
16	I5667-03MS	FINAL-EFFLUENT-15	MS	10/04/17 16:08		OK
17	CCV2	CCV2	CCV	10/04/17 16:38		OK
18	CCB2	CCB2	CCB	10/04/17 17:07		OK



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	10/4/2017 12:00:00 AM
Project:	LB90569	Date Received:	10/4/2017 12:00:00 AM
Client Sample ID:	FINAL-EFFLUENT-19C	SDG No.:	LB90569
Lab Sample ID:	I5667-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0.64		1	0.066		0.5	mg/L		10/04/2017	300.0
	Chloride	599	OR	1	0.075		0.15	mg/L		10/04/2017	300.0
	Fluoride	0.16		1	0.043		0.1	mg/L		10/04/2017	300.0
	Nitrate	0.19		1	0.027		0.13	mg/L		10/04/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		10/04/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		10/04/2017	300.0
	Sulfate	60.2	OR	1	0.13		0.75	mg/L		10/04/2017	300.0



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	10/4/2017 12:00:00 AM
Project:	LB90569	Date Received:	10/4/2017 12:00:00 AM
Client Sample ID:	FINAL-EFFLUENT-19C	SDG No.:	LB90569
Lab Sample ID:	I5667-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90569

SDG No.: LB90569

Contract: _____ Lab Code: CHEM

Case No.: LB90569

SAS No.: LB90569

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	10	10	100	0	90 - 110		09/18/2017	15:34	LB90569
	Chloride	2.9	3	96.7	0	90 - 110		09/18/2017	15:34	LB90569
	Fluoride	2	2	100	0	90 - 110		09/18/2017	15:34	LB90569
	Phosphorus, Ortho	4.8	5	96	0	90 - 110		09/18/2017	15:34	LB90569
	Nitrite	2.9	3	96.7	0	90 - 110		09/18/2017	15:34	LB90569
	Nitrate	2.5	2.5	100	0	90 - 110		09/18/2017	15:34	LB90569
	Sulfate	14.3	15	95.3	0	90 - 110		09/18/2017	15:34	LB90569



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90569

SDG No.: LB90569

Contract: _____ Lab Code: CHEM

Case No.: LB90569

SAS No.: LB90569

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Bromide	10.1	10	101	0	90 - 110		10/04/2017	10:14	LB90569
	Chloride	2.9	3	96.7	0	90 - 110		10/04/2017	10:14	LB90569
	Fluoride	2.1	2	105	0	90 - 110		10/04/2017	10:14	LB90569
	Phosphorus, Ortho	4.1	5	82	0	90 - 110		10/04/2017	10:14	LB90569
	Nitrite	3	3	100	0	90 - 110		10/04/2017	10:14	LB90569
	Nitrate	2.4	2.5	96	0	90 - 110		10/04/2017	10:14	LB90569
	Sulfate	14.4	15	96	0	90 - 110		10/04/2017	10:14	LB90569
CCV2	Bromide	10.1	10	101	0	90 - 110		10/04/2017	16:38	LB90569
	Chloride	2.9	3	96.7	0	90 - 110		10/04/2017	16:38	LB90569
	Fluoride	2.1	2	105	0	90 - 110		10/04/2017	16:38	LB90569
	Phosphorus, Ortho	1.7	5	34	0	90 - 110		10/04/2017	16:38	LB90569
	Nitrite	3	3	100	0	90 - 110		10/04/2017	16:38	LB90569
	Nitrate	2.4	2.5	96	0	90 - 110		10/04/2017	16:38	LB90569
	Sulfate	14.6	15	97.3	0	90 - 110		10/04/2017	16:38	LB90569



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90569

SDG No.: LB90569

Contract: Lab Code: CHEM

Case No.: LB90569

SAS No.: LB90569

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Bromide	0.066	+/-0.5	U		0.5		09/18/2017	16:03	LB90569
	Chloride	0.075	+/-0.15	U		0.15		09/18/2017	16:03	LB90569
	Fluoride	0.043	+/-0.1	U		0.1		09/18/2017	16:03	LB90569
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/18/2017	16:03	LB90569
	Nitrite	0.022	+/-0.15	U		0.15		09/18/2017	16:03	LB90569
	Nitrate	0.027	+/-0.13	U		0.13		09/18/2017	16:03	LB90569
	Sulfate	0.13	+/-0.75	U		0.75		09/18/2017	16:03	LB90569



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90569

SDG No.: LB90569

Contract:

Lab Code: CHEM

Case No.: LB90569

SAS No.: LB90569

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Bromide	0.066	+/-0.5	U		0.5		10/04/2017	11:09	LB90569
	Chloride	0.075	+/-0.15	U		0.15		10/04/2017	11:09	LB90569
	Fluoride	0.043	+/-0.1	U		0.1		10/04/2017	11:09	LB90569
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		10/04/2017	11:09	LB90569
	Nitrite	0.022	+/-0.15	U		0.15		10/04/2017	11:09	LB90569
	Nitrate	0.027	+/-0.13	U		0.13		10/04/2017	11:09	LB90569
	Sulfate	0.13	+/-0.75	U		0.75		10/04/2017	11:09	LB90569
CCB2	Bromide	0.066	+/-0.5	U		0.5		10/04/2017	17:07	LB90569
	Chloride	0.075	+/-0.15	U		0.15		10/04/2017	17:07	LB90569
	Fluoride	0.043	+/-0.1	U		0.1		10/04/2017	17:07	LB90569
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		10/04/2017	17:07	LB90569
	Nitrite	0.022	+/-0.15	U		0.15		10/04/2017	17:07	LB90569
	Nitrate	0.027	+/-0.13	U		0.13		10/04/2017	17:07	LB90569
	Sulfate	0.13	+/-0.75	U		0.75		10/04/2017	17:07	LB90569



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90569

SDG No.: LB90569

Contract: Lab Code: CHEM

Case No.: LB90569

SAS No.: LB90569

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB90569

SDG No.: LB90569

Instrument: IC-1

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB90569BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		10/04/2017	11:38	LB90569
	Chloride	0.075	<0.15	U		0.15		10/04/2017	11:38	LB90569
	Fluoride	0.043	<0.1	U		0.1		10/04/2017	11:38	LB90569
	Phosphorus, Ortho	0.01	<0.25	U		0.25		10/04/2017	11:38	LB90569
	Nitrite	0.022	<0.15	U		0.15		10/04/2017	11:38	LB90569
	Nitrate	0.027	<0.13	U		0.13		10/04/2017	11:38	LB90569
	Sulfate	0.13	<0.75	U		0.75		10/04/2017	11:38	LB90569



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90569 level: low sdg no.: LB90569
contract: _____ lab code: CHEM case no.: LB90569 sas no.: LB90569
matrix: WATER sample id: I5667-03 client id: FINAL-EFFLUENT-19CMS
Percent Solids for Sample: 0 Spiked ID: I5667-03MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Bromide	mg/L	80 - 120	11.4		0.64		10	108		
Chloride	mg/L	80 - 120	538	OR	599	OR	3	-2033	*	
Fluoride	mg/L	80 - 120	0.87		0.16		2	36	*	
Phosphorus, Ortho	mg/L	80 - 120	1.1		0.01	U	5	22	*	
Nitrite	mg/L	80 - 120	0	U	0.022	U	3			
Nitrate	mg/L	80 - 120	2.8		0.19		2.5	104		
Sulfate	mg/L	80 - 120	73.5	OR	60.2	OR	15	89		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90569 **Level:** LOW **SDG No.:** LB90569
Contract: _____ **Lab Code:** CHEM **Case No.:** LB90569 **SAS No.:** LB90569
Matrix: WATER **Sample ID:** I5667-03 **Client ID:** FINAL-EFFLUENT-19CDUP
Percent Solids for Sample: 0 **Duplicate ID** I5667-03DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	0.64		0.8		22	*	
Chloride	mg/L	20	599	OR	611	OR	2		
Fluoride	mg/L	20	0.16		0.18		12		
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.19		0.19		0		
Sulfate	mg/L	20	60.2	OR	62.6	OR	4		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90569

SDG No.: LB90569

Contract:

Lab Code: CHEM

Case No.: LB90569

SAS No.: LB90569

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB90569BSW							
Bromide	mg/L	10	9.8		98	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	4.5		90	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.2		94.7	90 - 110	
